INTERNATIONAL SEARCH REPORT

international Application No TCT/IB2004/002235 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01Q9/04 H01C H01Q1/24 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) H01Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 932 219 A (LK PRODUCTS OY) 1,4,6,7, 28 July 1999 (1999-07-28) 10,12 figures 6,7 paragraphs '0012! - '0016! Υ 2,5,8,11 WO 01/24311 A (ALLGON AB ; BARTHA ISTVAN (SE); NILSSON FELIX (SE); SUNDBERG DANIEL X 1,4,6,7, 10,12 (S) 5 April 2001 (2001-04-05) page 4, line 4 - page 6, line 11 figures 1-4 γ 2,5,8,11 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of enother citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the cat "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 30 August 2004 06/09/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2

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		TCT/IB2004/002235								
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT										
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.								
Y	US 2003/103010 A1 (BOYLE KEVIN R) 5 June 2003 (2003-06-05) paragraphs '0042!, '0044!, '0045! figure 9	2,5,8,11								
Ą	· 	1,3,4,6, 7,9,10, 12								
A	WO 02/080304 A (ALLGON MOBILE COMM AB; MOREN STEFAN (SE); TRI NGUYEN MINH (SE)) 10 October 2002 (2002-10-10) page 6, line 18 - page 7, line 26 figures 1,2	1-12								
A	EP 0 867 967 A (NOKIA MOBILE PHONES LTD) 30 September 1998 (1998-09-30) column 8, line 24 - line 48 figure 4	1-12								
		·								

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

Information on patent family members

international Application No
TT/IB2004/002235

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
EP 09322	19	Α	28-07-1999	F I EP	980131 0932219		22-07-1999 28-07-1999
WO 01243	11 .	A	05-04-2001	AU WO SE	7820600 0124311 9903482	A1	30-04-2001 05-04-2001 28-03-2001
US 20031	03010	A1	05-06-2003	WO	03047025	A1	05-06-2003
WO 02080	304	Α	10-10-2002	CN EP SE WO US	1476651 1374335 0101172 02080304 2004051673	A1 A A1	18-02-2004 02-01-2004 03-10-2002 10-10-2002 18-03-2004
EP 08679	167	A	30-09-1998	FI DE DE EP EP US	971307 69813357 69813357 1329982 0867967 5914690	D1 T2 A1 A2	28-09-1998 22-05-2003 26-02-2004 23-07-2003 30-09-1998 22-06-1999